

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. Cancelled.
2. (Currently Amended) The method of claim ~~[[1]]~~ 5 wherein the assignments include a voice timeslot, an unassigned timeslot, and a data timeslot.
3. Cancelled.
4. Cancelled.
5. (Currently Amended) ~~[[The]]~~ A method comprising: of  
~~claim 3~~  
receiving frames partitioned into multiple timeslots;  
reading a timeslot lookup table including an entry  
that specifies an assignment corresponding to a timeslot;  
storing data associated with a particular timeslot in  
a memory location based on the assignment, with data from a  
particular channel included in timeslots having a data  
assignment stored in contiguous memory locations; and  
calculating the number of timeslots associated with a  
set of data timeslots, wherein calculating the number of  
timeslots includes locating a start-point and an end-point of a  
set of data non-consecutive channels in a frame having the same  
assignment.
6. (Original) The method of claim 2 wherein timeslots having a voice assignment or an unassigned timeslot separate the timeslots having a data assignment in the frame.

7. (Original) The method of claim 2 wherein storing the data comprises:

storing the data included associated with voice timeslots in a first memory;

storing the data associated with data timeslots in a second memory; and

discarding the data associated with unassigned timeslots.

8. (Original) The method of claim 2 wherein storing the data comprises:

storing the data associated with voice timeslots in a first subset of locations in the memory;

storing the data associated with data timeslots in a first subset of locations in the memory; and

discarding the data associated with unassigned timeslots.

9. (Currently Amended) The method of claim [[1]] 5 further comprising storing the frames associated with a voice assignment in a memory in the order the frames are received.

10. (Currently Amended) The method of claim [[1]] 5 further comprising storing the frames associated with a voice assignment such that all voice assignment frames from a channel for a particular frame are stored contiguously.

11 - 35. Cancelled.

36. (New) A computer program product, tangibly embodied in a computer-readable medium, when executed by a computer, perform operations comprising:

receiving frames partitioned into multiple timeslots;

reading a timeslot lookup table including an entry that specifies an assignment corresponding to a timeslot;

storing data associated with a particular timeslot in a memory location based on the assignment, with data from a particular channel included in timeslots having a data assignment stored in contiguous memory locations; and

calculating the number of timeslots associated with a set of data timeslots, wherein calculating the number of timeslots includes locating a start-point and an end-point of a set of data non-consecutive channels in a frame having the same assignment.

37. (New) The computer program product of claim 36, wherein the assignments include a voice timeslot, an unassigned timeslot, and a data timeslot.

38. (New) The computer program product of claim 37, wherein timeslots having a voice assignment or an unassigned timeslot separate the timeslots having a data assignment in the frame.

39. (New) The computer program product of claim 37, wherein storing the data comprises:

storing the data included associated with voice timeslots in a first memory;

storing the data associated with data timeslots in a second memory; and

discarding the data associated with unassigned timeslots.

40. (New) The computer program product of claim 37, wherein storing the data comprises:

- storing the data associated with voice timeslots in a first subset of locations in the memory;
- storing the data associated with data timeslots in a first subset of locations in the memory; and
- discarding the data associated with unassigned timeslots.

41. (New) The computer program product of claim 36, wherein calculating the number of timeslots includes locating a start-point and an end-point of a set of data non-consecutive channels in a frame having the same assignment.

42. (New) The computer program product of claim 36, the operations further comprising storing the frames associated with a voice assignment in a memory in the order the frames are received.

43. (New) The computer program product of claim 36, the operations further comprising storing the frames associated with a voice assignment such that all voice assignment frames from a channel for a particular frame are stored contiguously.

44. (New) A system comprising:

- a processor; and
- a computer program product, tangibly embodied on a computer-readable medium to cause the processor to perform operations comprising: receiving frames partitioned into multiple timeslots;

reading a timeslot lookup table  
including an entry that specifies an assignment corresponding to  
a timeslot;

storing data associated with a  
particular timeslot in a memory location based on the  
assignment, with data from a particular channel included in  
timeslots having a data assignment stored in contiguous memory  
locations; and

calculating the number of timeslots  
associated with a set of data timeslots, wherein calculating the  
number of timeslots includes locating a start-point and an end-  
point of a set of data non-consecutive channels in a frame  
having the same assignment.

45. (New) The system of claim 44, wherein the assignments  
include a voice timeslot, an unassigned timeslot, and a data  
timeslot.

46. (New) The system of claim 45, wherein timeslots having  
a voice assignment or an unassigned timeslot separate the  
timeslots having a data assignment in the frame.

47. (New) The system of claim 45, wherein storing the data  
comprises:

storing the data included associated with voice  
timeslots in a first memory;

storing the data associated with data timeslots  
in a second memory; and

discarding the data associated with unassigned  
timeslots.

48. (New) The system of claim 45, wherein storing the data comprises:

storing the data associated with voice timeslots in a first subset of locations in the memory;

storing the data associated with data timeslots in a first subset of locations in the memory; and

discarding the data associated with unassigned timeslots.

49. (New) The system of claim 44, wherein calculating the number of timeslots includes locating a start-point and an end-point of a set of data non-consecutive channels in a frame having the same assignment.

50. (New) The system of claim 44, the operations further comprising storing the frames associated with a voice assignment in a memory in the order the frames are received.

51. (New) The system of claim 44, the operations further comprising storing the frames associated with a voice assignment such that all voice assignment frames from a channel for a particular frame are stored contiguously.